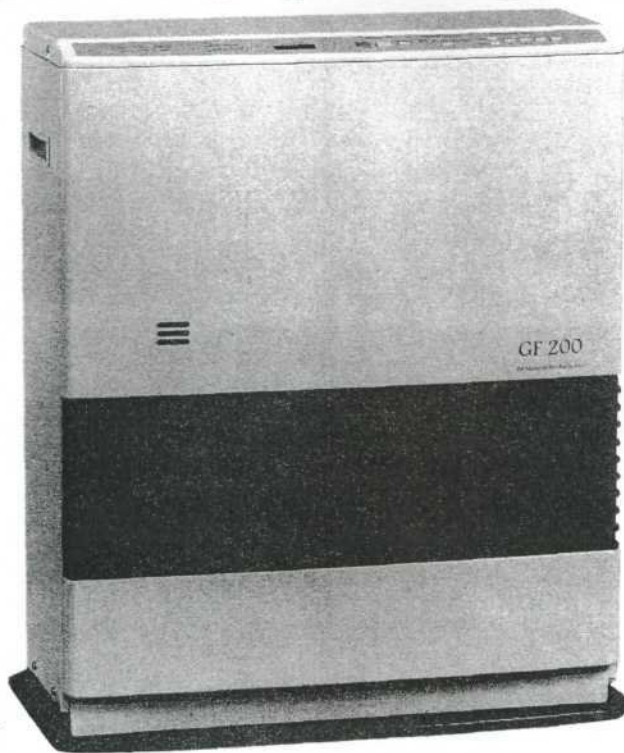


# **MONITOR GF200**

## **Vented Heating System**

# **Service Manual**



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# MONITOR HEATING SYSTEM

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# MONITOR HEATING SYSTEM

## Section 1: Description

### 1-1 SPECIFICATIONS

Model No.	GF 200
Type of Appliance	Fan type direct vent wall furnace
Input Rating	High 20,000BTU/hour (Nat.), 20,000 BTU/hour (LP.) Low 12,600BTU/hour (Nat.), 13,400 BTU/hour (LP.)
Output Rating	High 16,000BTU/hour (Nat.), 16,000 BTU/hour (LP.) Low 10,200BTU/hour (Nat.), 10,900 BTU/hour (LP.)
Electrical Rating	120 V, 60 Hz, Less than 2 amperes
Power Consumption	65 Watts
Heated Air Delivery	High 176 Cubic feet/minute Low 113 Cubic feet/minute
Flue Pipe Hole	2.5 inches diameter
Dimensions	Height: 25.6 inches Width: 20.9 inches Depth: 12.4 inches
Weight	55 pounds
Inlet Gas Supply Pressure	Nat. Gas Max. 10.5 inch W.C. (267 mmH <sub>2</sub> O) Min. 5.1 inch W.C. (130 mmH <sub>2</sub> O) LP. Gas Max. 13.0 inch W.C. (330 mmH <sub>2</sub> O) Min. 11.0 inch W.C. (279 mmH <sub>2</sub> O)
Manifold Test Pressure	Nat. Gas 3.15 inch W.C. ( 80 mmH <sub>2</sub> O) LP. Gas 3.19 inch W.C. ( 81 mmH <sub>2</sub> O)

The minimum and maximum inlet gas supply pressures are for the purpose of input adjustment.

### 1-2 SPECIAL FEATURES

#### AUTOMATIC IGNITION

**MEMORY BACK UP:** Set memory can be kept in case of power failure for up to 5 minutes.

**DUAL BLOWERS:** Separate fans for combustion and room air circulation.

**THERMOSTATICALLY CONTROLLED:** Adjusts to the desired room temperature.

**BUILT-IN TIMER:** Heater will automatically operate as programmed by the user.

**AUTOMATIC RESET AFTER POWER FAILURE:** Heater will automatically resume operation after power is restored.

**INDICATOR LIGHTS:** Easy-to-see signals show when heater is in operation, when timer is activated, and when the burner is operating in low or high modes.

**CLEAN OPERATION:** Products of combustion are vented outside.

**CONSUMES NO ROOM AIR:** Air for combustion is drawn from outside.

**EASY INSTALLATION:** Includes all parts required for standard installation

### 1-3 SAFETY FEATURES

**SAFE RE-LIGHTING:** Heater will not restart until its combustion chamber has cooled.

**ELECTRICAL PROTECTION:** Heater automatically shuts off in the unlikely event of a malfunction in the electrical circuitry or disruption of the power supply.

**NO EXHAUST IN ROOM:** Products of combustion are discharged outdoors.

**FLUE PIPE:** Outside air is drawn through a pipe-within-a-pipe venting system. This process preheats combustion air and regains heat from exhaust gases.



#### CAUTION: ALTERNATE POWER SOURCES

The Monitor GF200 may not operate when powered by sources such as an auxiliary generator, UPS (Uninterrupted Power Source), inverters, etc.

This unit may not operate on a GFI (Ground Fault Interrupter) power circuit.

Check with your dealer for guidance on specific applications.

# MONITOR HEATING SYSTEM

## Section 1: Description

### 1-4 MANUAL GAS VALVE

The Manual Gas Valve is included with Heater. Connect the Manual Gas Valve to gas inlet at rear of the cabinet.

Connection must be checked for gas-tightness by means of leak detector solution, soap and water, or an equivalent nonflammable solution, as applicable.

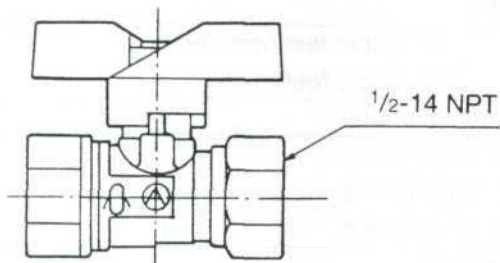


Figure 1-1

### 1-5 AUTOMATIC GAS VALVE

The Automatic Gas Valve is a normally closed two-stage, electro/mechanical device which either allows gas to flow to the burner or prevents it from doing so.

When the valve is energized, a spring-loaded plunger is lifted to permit the flow of gas. Removing power from the valve drops the plunger down into the inlet to prevent gas from passing through.

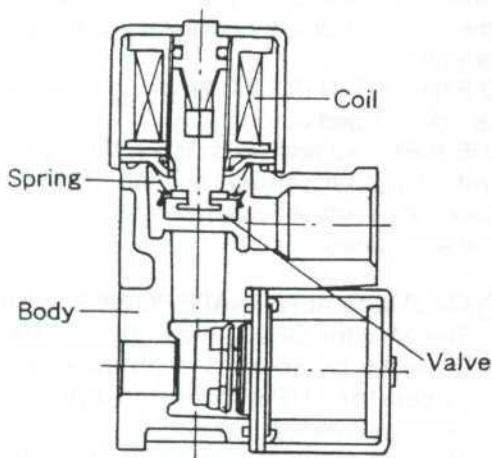


Figure 1-3

### 1-6 GAS CONTROL VALVE

The Gas Control Valve provides constant gas pressure (volume) of two modes (High, Low) to the burner.

Operation of the Gas Control Valve is controlled by the Microprocessor.

The specifications of the Gas Control Valve are as follows:

Type of gas	Natural		LP	
Inlet Gas Supply Pressure (in W.C.)	7.0		11.0	
Manifold Pressure (in W.C.)	3.15	1.34	3.19	1.42
Burn Mode	High	Low	High	Low

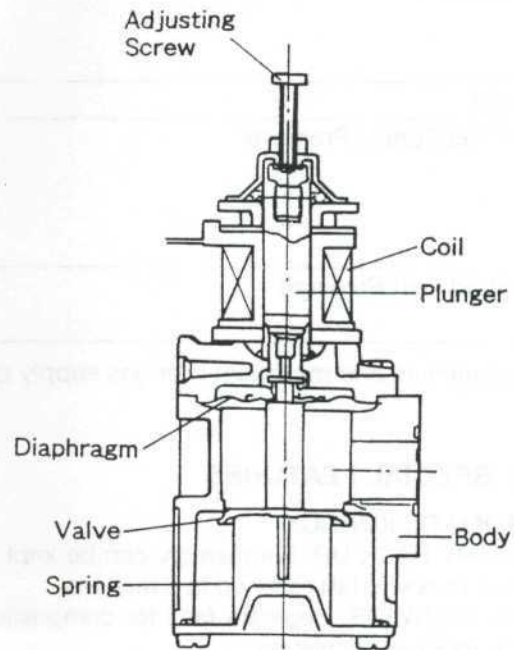


Figure 1-2

Manifold pressure can be checked by removing brass fitting from end of Gas Control Valve and inserting a gauge with 1/8 NPT fitting.

# MONITOR HEATING SYSTEM

## Section 1: Description

### 1-7 BURNER

This burner is a Bunsen type with a specially structured flame port section, which shapes and positions the flame, so it can be wrapped by the secondary air flow, and burn completely.

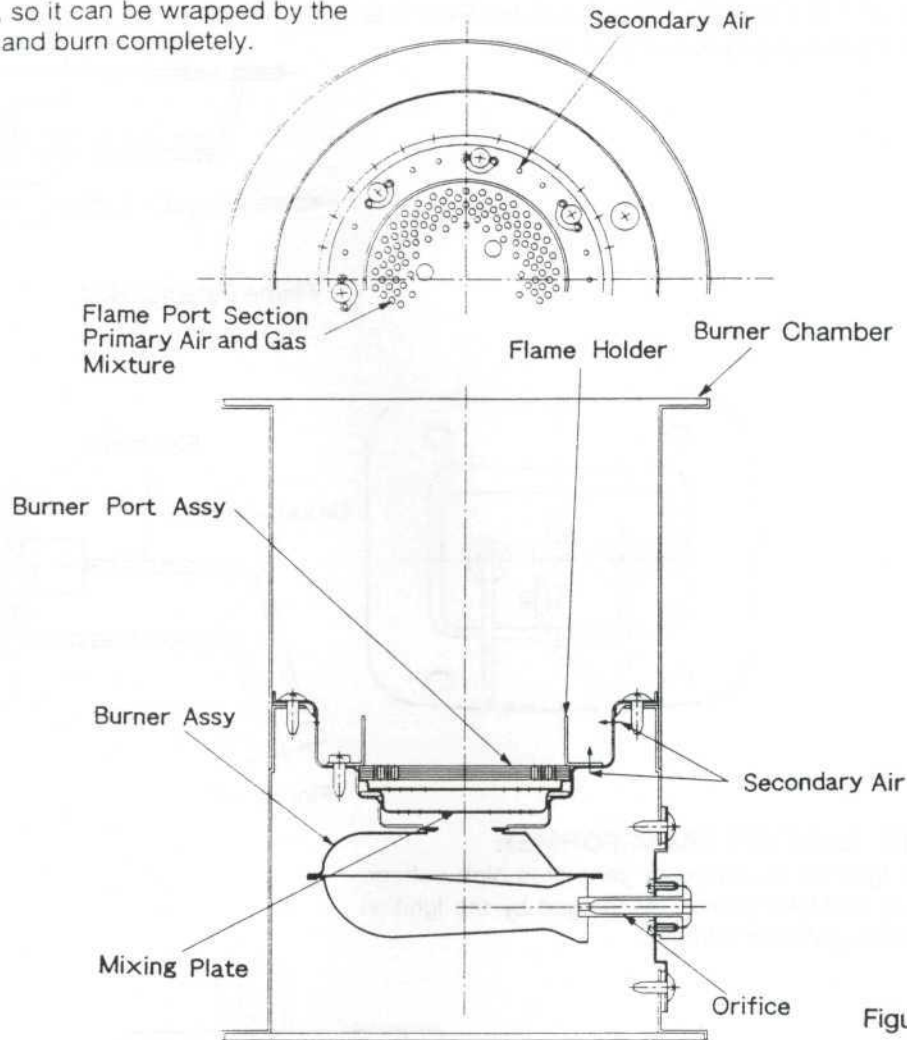


Figure 1-4

### 1-8 ORIFICE

The orifice is made of brass, inserted into the gas passage of the mixer, and fixed by the gas pipe.

#### NOTE:

For altitude applications over 2,000 feet refer to page 9.



#### WARNING:

Use of incorrect orifice will create a fire hazard and damage unit.

Gas Type	Natural	LP
Shape, Stamp		
Orifice size	Dia 2.38mm	Dia 1.87mm

# MONITOR HEATING SYSTEM

## Section 1: Description

### 1-9 IGNITION PLUG UNIT

The Electrode is applied high voltage, and discharges to the Grounding Rod to ignite the burner. The discharge gap between the Electrode and the Grounding Rod is  $3.5 \pm 0.8$  mm.

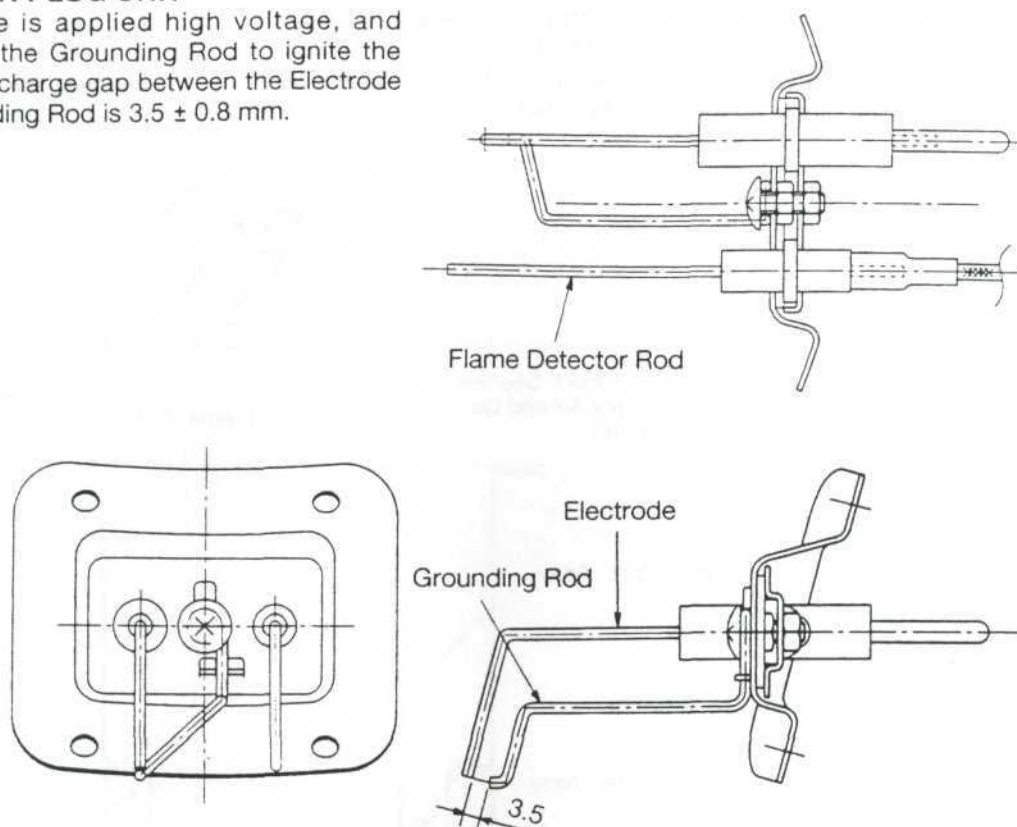


Figure 1-6

### 1-10 IGNITION TRANSFORMER

The Ignition transformer generates high voltage using 120 VAC power, discharged by the Ignition plug to ignite the burner.

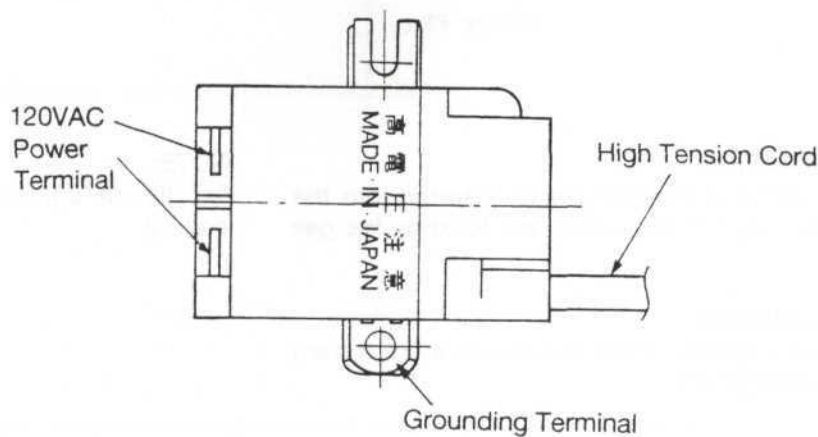


Figure 1-7

**⚠ WARNING:**  
Do not touch when functioning. High voltage of 15 kV is generated.

# MONITOR HEATING SYSTEM

## Section 1: Description

### 1-11 FLAME DETECTOR

An Electrode which detects that the burner has been ignited, using the flame as a conductor, instantaneously detects when the flame extinguishes and shuts down the Automatic Valve.

### 1-12 COMBUSTION BLOWER

The Combustion Blower has a two stage intake fan. The intake fan draws in outside air thru the flue pipe for internal combustion.

Burner modes control fan speeds and the Solenoid Damper in the Blower Casing. Those functions are as follows:

#### COMBUSTION AIR CONTROL

Burn Mode	Fan Speed	Solenoid Damper
High	High	Off (open)
Low	Low	On (close)

Setting air flow for Solenoid Damper on Low mode should read  $5.5 \pm 0.5 \text{ mmH}_2\text{O}$  for Nat. and  $5.5 \pm 0.5 \text{ mmH}_2\text{O}$  for LP.

### 1-13 HEAT EXCHANGER

An inlet at the top of the Heat Exchanger permits the heated air to travel from the Combustion Chamber into the Heat Exchanger.

An outlet, at the bottom of the Heat Exchanger, permits combustion by-products to be vented to the Flue Pipe.

While moving through the Heat Exchanger, the hot air within the Heat Exchanger heats the outside metal walls. The hot metal walls, in turn, heat air that is pushed past the Heat Exchanger and is circulated into the room. An air baffle, directly in front of the Heat Exchanger, deflects the heated air downwards, and out, through the Louver assembly.

### 1-14 FLUE PIPE

Flue Pipes are available in three (3) sizes. This provides the flexibility to meet the installation requirements for dwelling of various wall thicknesses. One side of the Flue Pipe contains a "T"-shaped fitting consisting of four ports. This side is mounted on the interior wall of the dwelling. The pipe side of the Flue Pipe is vented outside the dwelling. The Flue Pipe assembly consists of two concentric tubes. Outside air is drawn through the cylindrical space between the tubes.

As the cool air enters, it is heated by the hot air that is exiting the system.

A large-bore, flexible hose connects the air inlet port on the Flue Pipe with the Combustion

Blower; a cloth-covered metal pipe connects the Heat Exchanger with the exhaust outlet on the Flue Pipe.

### 1-15 AIR CIRCULATION FAN

The Circulation Fan is driven by a two speed motor and is designed to circulate the heated room air. If the heater is running in low burn mode, the fan also runs at low-speed; in high burn mode, the fan advances to high-speed. Operation of the fan is controlled by the Microprocessor and Fan Thermostat Switch. Physically assembled with a protective wire cage, the entire fan assembly is secured to a bracket on the rear of the Heater Cabinet. A sheet metal conduit, at the rear of the Heater, protects the fan wiring from damage.

# MONITOR HEATING SYSTEM

## Section 1: Description

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### 1-16 AIR PRESSURE SWITCH

This switch consists of a rubber diaphragm which senses changes in air pressure (it is connected to the Combustion Blower and the Combustion Chamber) and a normally-open, micro switch.

Should an abnormal pressure differential exist, the switch opens to disable the circuitry that controls the supply of gas. Since the flow of gas to the Burner is cut off, the flame extinguishes, and the burner Status Indicators blink.

This safety mechanism can be triggered by several conditions:

- Leak, loose, or broken tubing which connects the Air Pressure Switch with the Combustion Blower or the Combustion Chamber
- Clogged or blocked Air Line
- Blocked or clogged Flue Pipe
- Intake port of the Combustion Blower is blocked
- Combustion Blower is inoperable

### 1-17 OVERHEAT PROTECTOR SWITCH

The normally-closed Overheat Protector Switch safeguards the heaters against damage due to overheating.

The Switch is rated 110°C (230°F). Should a Monitor overheat (internal temperatures rise beyond 110°C/230°F) the switch will open to shut down the heater. After extinguishing the flame, the Burner Status indicators continue to blink. The Overheat Protector Switch will automatically reset after cooling down. Once the heater has cooled to 90°C(194°F), the system can be restarted. To restart the Monitor, proceed as follows:

- A. Press ON/OFF Switch to OFF.
- B. Allow heater to cool.
- C. Troubleshoot the cause of the overheat.
- D. Press ON/OFF switch to ON.
- E. Proceed with normal operation.

### 1-18 THERMAL FUSE

Should the Overheat Protector Switch malfunction, and the heater be further overheated, the thermal fuse(internal temperatures rise beyond 167 °C/333°F) melts and prevent further overheating.

### 1-19 OVERCURRENT FUSE

2-amp., 125VAC, fuse protects the heater from damage resulting from power overloads. In the event of a power surge or internal wiring hazards, the fuse opens and power to the heater is cut off.

### 1-20 ELECTRICAL SYSTEM

Electrical power is supplied to the Monitor to run the Microprocessor and the other electrically-energized component.

Electrical operation of the Monitor can be thought of as having the following eight(8) distinct phases: plug in; turn on; pre-purge; ignition; pre-combustion; heating; shutdown and post-purge.

### 1-21 MICROPROCESSOR

Principally consisting of a 64-pin Integrated Circuit, the Microprocessor provides safety timings, controls relays and provides clock and thermostat functions for the Monitor heater.

### 1-22 TEMPERATURE SENSOR

The sensor which is capable of sensing room temperature within a range of 42°F to 96°F, can be left mounted on the back of the heater cabinet or be wall mounted.

Approximately 6 1/2' (about 200 cm) of No. 20 AWG Wire is supplied with the sensor to facilitate wall mounting the sensor in a favorable location.

### 1-23 SAFETY MECHANISMS

Several safety mechanisms have been built into the Monitor Heating System. These devices protect the user against personal injury, protect the heater against damage, and shutdown the heater if a malfunction occurs.

### 1-24 CLOTH COVERED EXHAUST PIPE

Insulating cloth covers are to be placed over all metal surfaces of the Exhaust Line during installation. Since combustion by-products are vented at elevated temperatures, the Exhaust Pipe will become hot during operation. The insulating cloth covers protect the user from burn hazards associated with accidental contact with these heated metal surfaces. During installation make sure that all Exhaust Lines are tight. Do not operate the heater without the insulating covers.

### 1-25 AIR CIRCULATION FAN GUARD

This guard is an integral part of the fan assembly. The guard protects the user against physical injury which could occur from accidental contact with revolving metal fan blade.

### 1-26 SLIDE SELECTOR FOR THE RESET TEMP.

Once power is restored after power interruption by power failure or by disconnecting heater plug from wall outlet, heater will resume operation in the MANUAL mode and maintain room temperature according to the setting temperature selected by using the selector for the reset temperature at the lower right hand side of the cabinet.

# MONITOR HEATING SYSTEM

## Section 1: Description

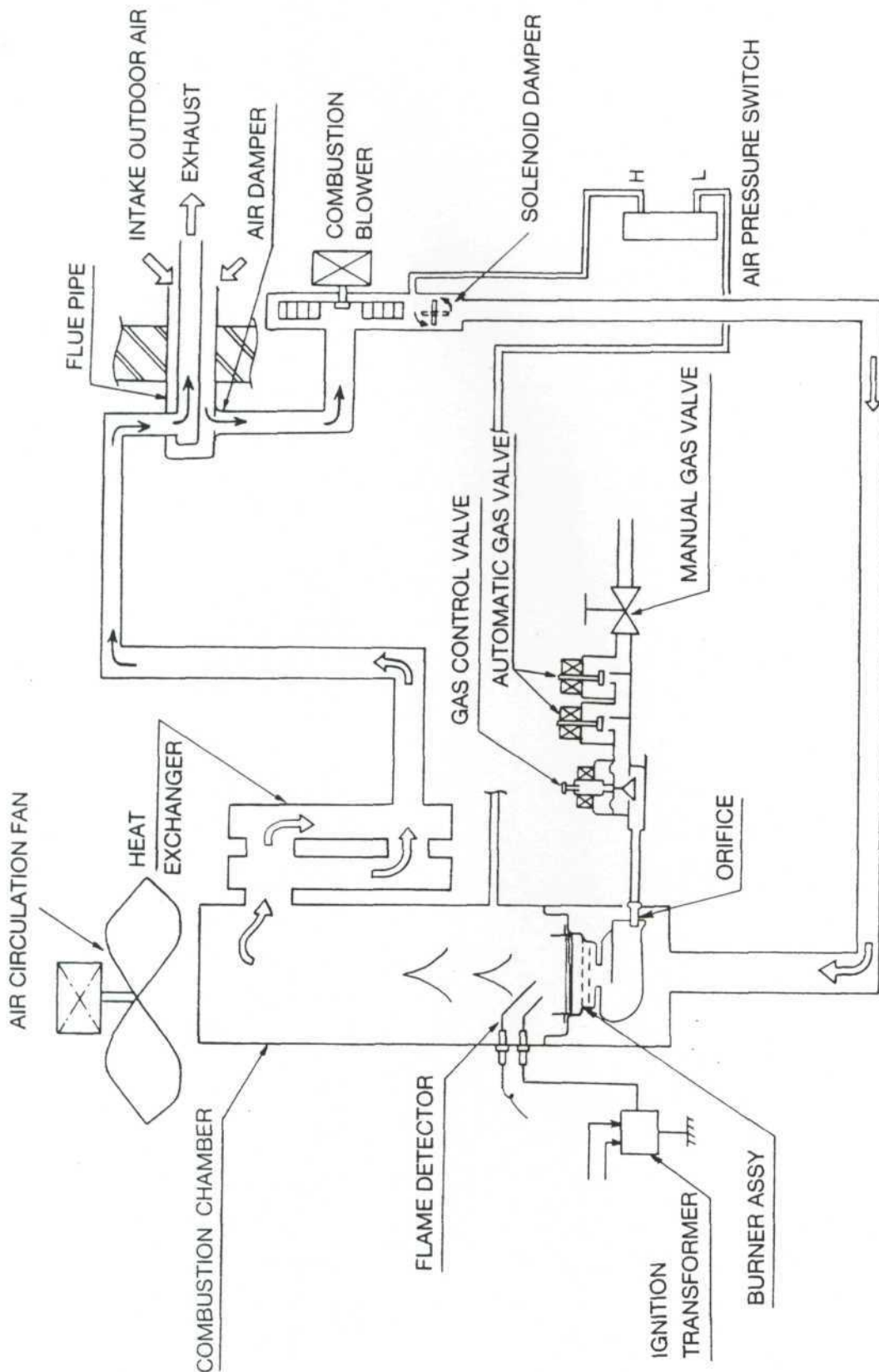


Figure 1-8 ELEMENTS OF COMBUSTION SYSTEM

# MONITOR HEATING SYSTEM

## Section 2: Installation

### 2-1 NOTICE BEFORE INSTALLATION

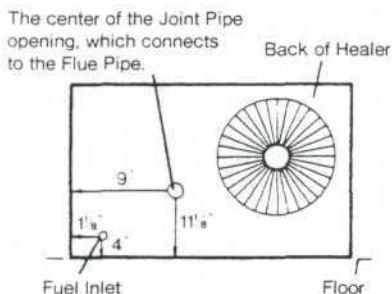
Refer to the service manual of the Monitor GF500

### 2-2 HEATER INSTALLATION

Refer to the service manual of the Monitor GF500

**NOTE:** Use the cardboard template provided with the Heater for flue pipe location.

Just in case the template was misplaced, the approximate flue pipe hole location measurements are follows:



### 2-3 FLUE PIPE CLEARANCES

Refer to the service manual of the Monitor GF500

### 2-4 INSTALLING AN EXTENSION KIT

Refer to the service manual of the Monitor GF500

### 2-5 GAS CONNECTION

Refer to the service manual of the Monitor GF500

### 2-6 GAS CONVERSION PROCEDURE

1. Replace the natural orifice with the LP orifice which is included in the conversion kit.  
Check orifice fitting for gas leak

- Slide the gas type selector on PCB to the LP position.
- Check that the manifold pressure matches the following values. If not adjust them to the following values using volume resistor (VR 1:Hi VR 2:Lo) on the PCB.

Hi:  $3.19 \pm 0.25$  W.C.

Lo:  $1.42 \pm 0.16$  W.C.

After check, reinstall fitting and check for leaks.

### 2-7 HIGH ALTITUDE INSTALLATION

All Units must be installed according to the following chart to determine which orifice will be used for the appropriate altitude.

#### NATURAL GAS

UP TO 2000 feet No changing orifice (2.38mm)  
2000-6000 feet 2.28 mm drill size orifice

#### LP GAS

UP TO 2000 feet No changing orifice (1.87mm)  
2000-6000 feet 1.78 mm drill size orifice

#### ⚠ WARNING:

Do not use above 6000 feet.

# MONITOR HEATING SYSTEM

## Section 3: Operation

### 3-1 INTRODUCTION

Monitor is an easy-to-operate vented gas heater. Routine operation features high BTU output, automatic adjustment of room temperature, low power consumption, and choice of automatic or manual heater operation.

This section provides all information necessary to operate the Monitor Heating System. All operation procedures specified should be performed in the order in which they are described.

### 3-3 OPERATING CONTROLS AND INDICATORS

Several controls and indicators are used to operate the heater and to monitor its performance as follows:

### 3-2 OPERATING SPECIFICATIONS

The following specifications apply to the operation of the Monitor GF 200.

- Rated Efficiency: 81%
- Power Consumption: as follows
  - High Burn 65 watts, Low Burn 65 watts
- Circulation Fan Output: 176 cubic feet/min
- Potential Heating Area: 600 - 1200 sq. feet

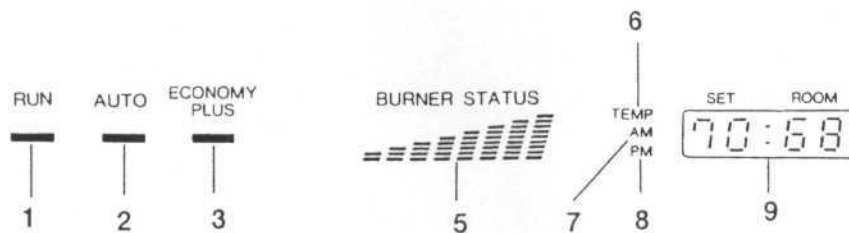


Figure 3-1, INDICATORS

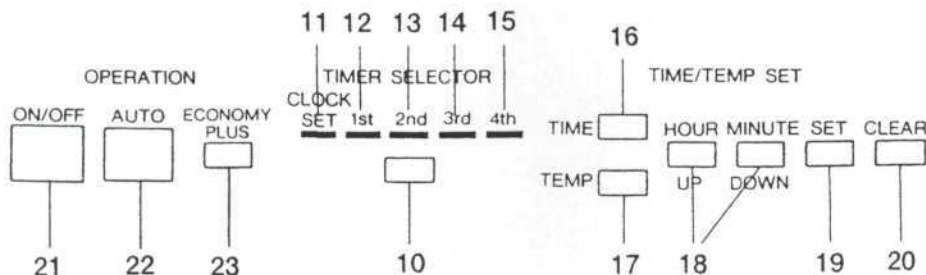


Figure 3-2, CONTROLS

NOTE: Refer to the service manual of the monitor GF500 in detail

### 3-4 OPERATION CONTROL SYSTEM

Refer to the service manual of the monitor GF500

# MONITOR HEATING SYSTEM

## Section 4: Maintenance / Servicing

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### **4-1 CLEANING THE CABINET**

Refer to the service manual of the Monitor GF500

### **4-2 CHECKING THE FLUE PIPE**

Refer to the service manual of the Monitor GF500

### **4-3 CLEANING THE INTERIOR**

Refer to the service manual of the Monitor GF500

### **4-4 CLEANING THE BLOWER GUARD**

Refer to the service manual of the Monitor GF500

### **4-5 ELECTRIC MOTOR MAINTENANCE**

Refer to the service manual of the Monitor GF500

### **4-6 CHECKING THE BURNER FLAME**

Refer to the service manual of the Monitor GF500

### **4-7 CLEANING THE BURNER**

Refer to the service manual of the Monitor GF500

# MONITOR HEATING SYSTEM

## Section 5: Troubleshooting

### GF200 Resistance Values

COMPONENT	APPROX. OHMS
Ignition Transformer (connector E/E)	108,000
Power Transformer (1)-Primary (AC 120V)	66
Power Transformer (1)-Secondary ( AC 11V)	1.6
Power Transformer (1)-Secondary (AC 120V)	647
Power Transformer (2)-Primary (AC 120V)	66
Power Transformer (2)-Secondary (AC 22V)	6.4
Damper Solenoid (connector I/I)	4,600
Resistor (connector G/G)	68
Circulation Fan (R & BK)	235
Circulation Fan (BK & Y)	247.5
Combustion Blower (BK & BK)	18
Thermistor (connector Q/Q at 77°F)	10,000
Fuse 2A (read with fuse out)	0.1
Gas Control Valve (connector P/P)	87
Gas Solenoid Valve (connector L/L)	2,400
Gas Solenoid Valve (connector M/M)	2,400

#### **WARNING:**

DISCONNECT HEATER FROM POWER SOURCE  
BEFORE MAKING ANY RESISTANCE TESTS.

NOTE: Refer to the service manual of the monitor GF500 in detail.

# MONITOR HEATING SYSTEM

## Section 5: Troubleshooting

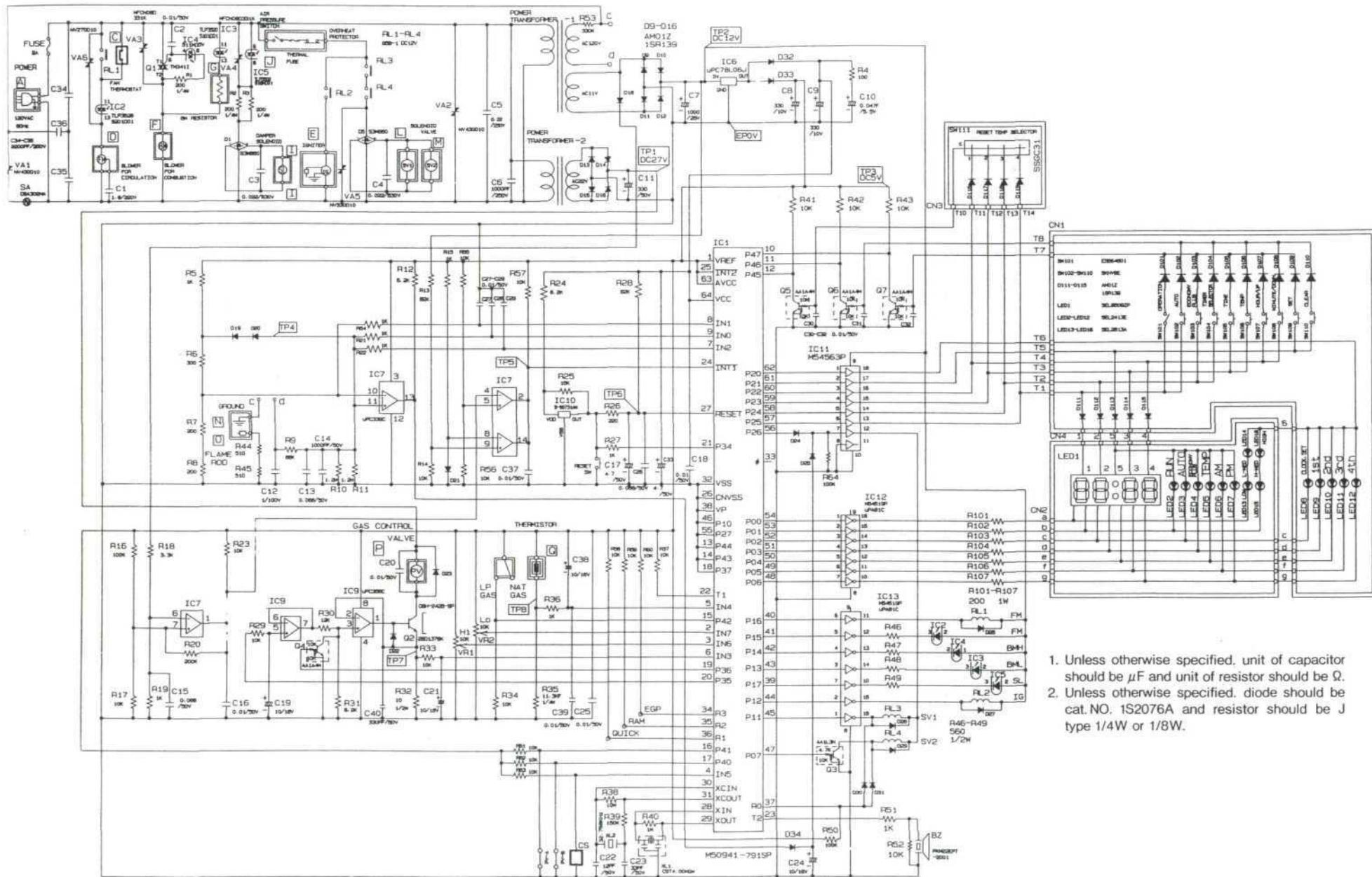
### GF 200 Component Voltage Readings

COMPONENT	READING TAKEN AT	AC	DC
Thermistor	Q on PCB Sensor Disconnected		5
All readings taken with components connected to PCB.			
Thermistor	Q on PCB Sensor connected		1.5 ~ 3.2
Air Pressure Switch/ Overheat Protector Closed	J on PCB	0	
Air Pressure Switch/ Overheat Protector Open	J on PCB	110	
Damper Solenoid	I on PCB		105
Gas Control Valve High mode	P on PCB		8.7
Gas Control Valve Low mode	P on PCB		6.2
Circulation Fan High Speed	R to BK	110	
Circulation Fan Low Speed	R to BK	93	
Ignition Transformer	E on PCB	110	
Power Transformer (1) (primary side)	AC 120V	110	
Power Transformer (1) (secondary side)	AC 11V AC 120V	11 120	
Power Transformer (2) (primary side)	AC 120V	110	
Power Transformer (2) (secondary side)	AC 22V	22	
Combustion Blower High Speed	F on PCB	110	
Combustion Blower Low Speed	F on PCB (Q1 is off)	88	
Resistor	G on PCB	22	
Gas Solenoid Valve	L on PCB		105
Gas Solenoid Valve	M on PCB		105

# **MONITOR HEATING SYSTEM**

## **Secction 6: Electrical System**

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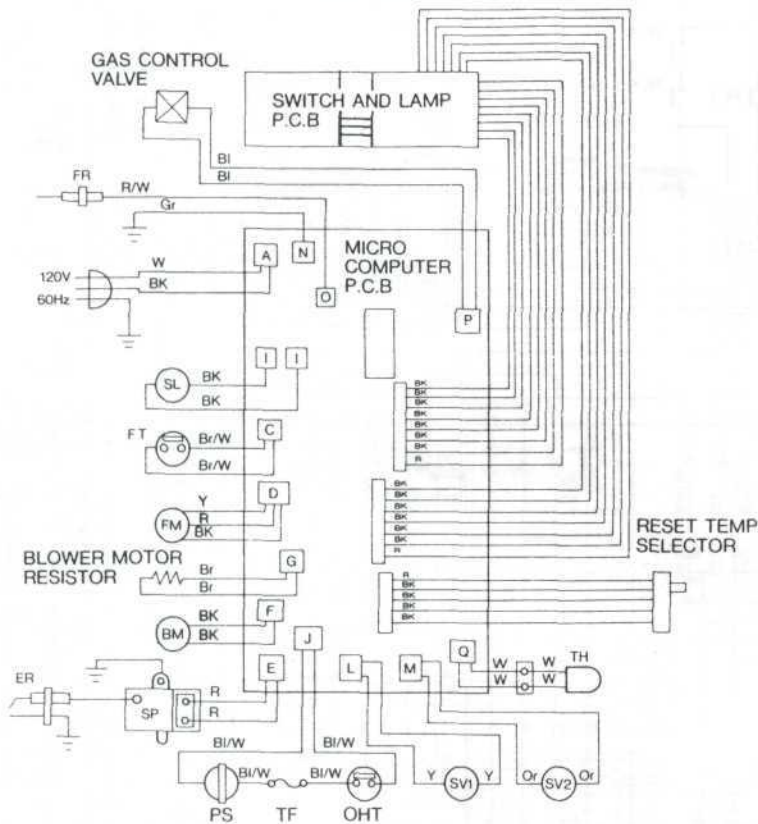


1. Unless otherwise specified, unit of capacitor should be  $\mu\text{F}$  and unit of resistor should be  $\Omega$ .
2. Unless otherwise specified, diode should be cat. NO. 1S2076A and resistor should be J type 1/4W or 1/8W.

# MONITOR HEATING SYSTEM

## Section 6: Electrical System

### WIRING DIAGRAM

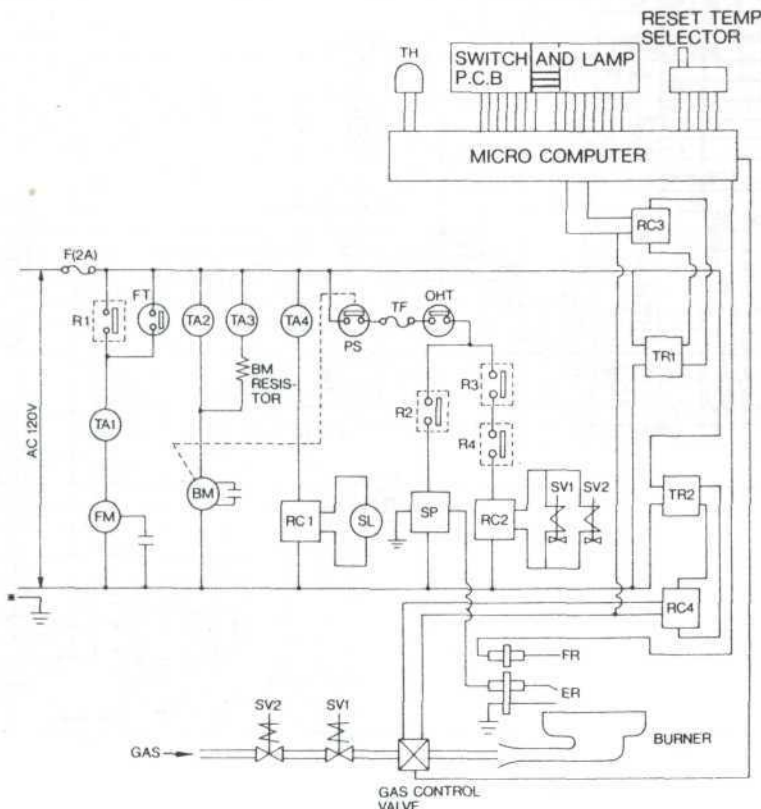


### CAUTION:

- Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.
- If any of the original wire as supplied with the appliance must be replaced, it must be replaced with a wire of at least a 105°C temperature rating.

CODE	COLOR
Bk	Black
Bl	Blue
Br	Brown
G	Gray
Or	Orange
R	Red
W	White
Y	Yellow
Gr	Green

### BLOCK DIAGRAM



MARK	PARTS NAME
BM	COMBUSTION BLOWER MOTOR
ER	ELECTRODE
F	CURRENT FUSE
FM	CIRCULATION FAN MOTOR
FR	FLAME ROD
FT	FAN THERMOSTAT
OHT	OVERHEAT THERMOSTAT
PS	AIR PRESSURE SWITCH
RC1~4	RECTIFICATION CIRCUIT
R1~4	RELAY
SL	SOLENOID
SP	SPARKER
SV1	SOLENOID VALVE 1
SV2	SOLENOID VALVE 2
TA1~4	TRIAC
TF	THERMAL FUSE
TH	THERMISTOR
TR1	TRANSFORMER 1
TR2	TRANSFORMER 2

※ Grounded inside chassis at bottom of unit.

# MONITOR HEATING SYSTEM

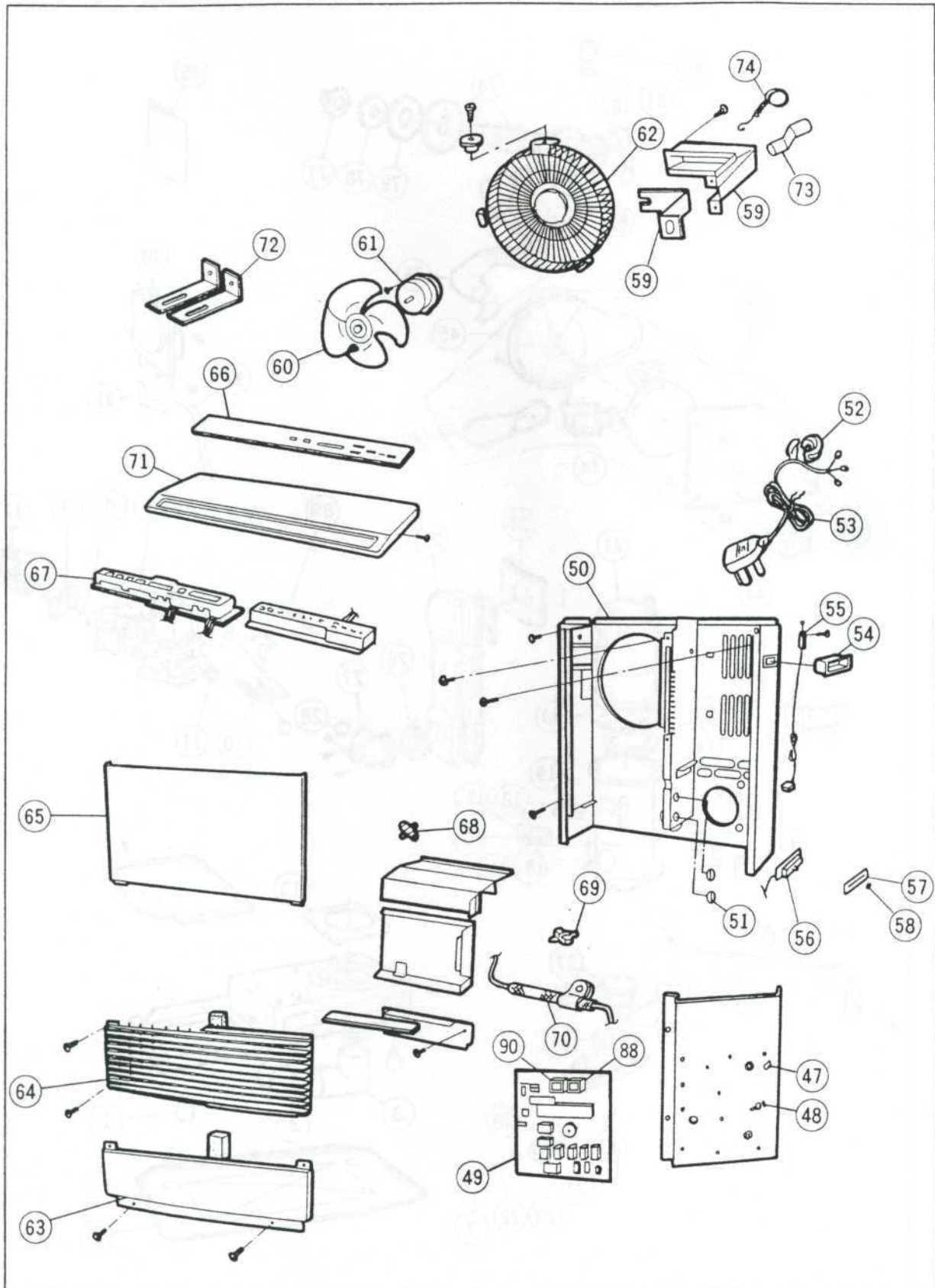
## Parts List

NO.	PARTS NAME	PARTS NO.	QTY	REMARKS	NO.	PARTS NAME	PARTS NO.	QTY	REMARKS
1	ADJUSTABLE LEG	5019	4		33	PRESSURE DETECTIVE PIPE	6820	1	
2	TRAY	6800	1		34	BURNER ASSY	6821	1	
3	AIR SUPPLY HOSE A	6101	1		35	MIXING PLATE ASSY	6822	1	
4	AIR SUPPLY HOSE B	6102	1		36	BURNER PORT ASSY	6823	1	
5	O RING (P10)	6604	1		37	FLAME HOLDER	6824	1	
6	AUTOMATIC GAS VALVE UNIT	6801	1		38	BURNER PACKING	6825	1	
7	GAS PIPE ASSY	6802	1		39	ORIFICE HOLDER	6826	1	
8	GAS INLET JOINT	6803	1		40	ORIFICE GUIDE	6643	1	
9	O RING (P11)	6609	1		41	GASKET 7	6827	1	
10	GAS PIPE JOINT	6804	1		42	BLOWER ASSY	6828	1	
11	O RING (P14)	6805	1		43	BLOWER MOTOR	6829	1	
12	MANUAL GAS VALVE	6601	1		44	SOLENOID	6142	1	
13	GASKET 1	6806	1		45	SUCTION CASE A	6143	1	
14	BURNER CHAMBER ASSY	6807	1		46	SEAL PACKING	6144	1	
15	WINDOW PACKING	6616	1		47	PWB SPACER CLIP A	6461	2	
16	MICA PLATE	6617	1		48	PWB SPACER CLIP B	6462	14	
17	MICA HOLDER	6618	1		49	PWB ASSY	6830	1	
18	PLUG BASE ASSY	6808	1		50	CABINET ASSY	6831	1	
18-1	FLAME DETECTIVE PLUG ASSY	6809	1		51	RUBBER BUSH	6136	2	
18-2	IGNITION ELECTRODE ASSY	6810	1		52	CORD BUSHING	6833	1	
18-3	PLUG HOLDER	6622	1		53	POWER SUPPLY CORD	6648	1	
18-4	PLUG PACKING	6623	1		54	CARRYING HANDLE	6138	2	
19	GASKET 5	6811	1		55	SENSOR ASSY	6186	1	
20	GASKET 6	6812	1		56	SLIDE SWITCH ASSY	6649	1	
21	COMBUSTION CHAMBER ASSY	6813	1		57	SLIDE SWITCH PANEL	6207	1	
22	ORIFICE (NAT GAS)	6814	1		58	KNOB	6208	1	
23	ORIFICE (LP GAS)	6815	1		59	WIRING GUARD	6263	1	
24	GASKET 4	6120	1		60	FAN BLADE	6180	1	
25	HEAT EXCHANGER ASSY	6816	1		61	CIRCULATION MOTOR	6262	1	
26	GASKET 6	6122	1		62	BLOWER GUARD ASSY	6261	1	
27	EXHAUST DUCT ASSY	6630	1		63	UNDER COVER	6832	1	
28	O RING (P39)	6176	1		64	LOUVER ASSY	6210	1	
29	GASKET 2	6817	1		65	FRONT COVER	6833	1	
30	AIR PRESSURE SWITCH	6818	1		66	LAMP PANEL	6834	1	
31	AIR LINE	6819	1		67	SWITCH & LAMP ASSY	6835	1	
32	SPARKER	6634	1		68	FAN THERMOSTAT	6152	1	

NOTE : TO OBTAIN PARTS, CONTACT YOUR DEALER OR,  
MONITOR PRODUCTS, INC. Toll free (800) 524-1102 or (609) 584-0505

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# MONITOR HEATING SYSTEM Exploded Views and Parts List



## MONITOR HEATING SYSTEM

### Exploded Views and Parts List

